

FY 2016-17 TAEP Cattle Genetics Program - Beef EPD Requirements by Breed - 3 Options

- \$1,600 maximum cost-share reimbursement for bulls with eligible Genomic Enhanced EPDs.

Breed association must verify Genomic Enhanced EPD status prior to reimbursement request.

- \$1,200 maximum cost-share reimbursement for bulls with eligible standard true NCE EPDs (0.15 min. Accuracy).

- **All bull types must have true NCE EPDs with minimum 0.15 accuracy for the Calving Ease (CE or BW) and Growth (WW or YW) categories.** True NCE EPDs are calculated after the performance and contemporary group data is submitted to the breed association. Interim EPDs, pedigree estimates, pedigree index (ex. I, I+, P, P+ or 0.05 Accuracy) or parental averages are not eligible for reimbursement.

To Qualify: A bull must meet or exceed EPD requirements in EACH EPD category for 1 of the following 3 bull types.

The 3 bull types are: **Balanced, Terminal or Calving Ease bulls.**

Each bull type (Balanced, Terminal or Calving Ease) has different EPD requirements.

The 3 EPD categories are: **Calving Ease, Growth and Maternal.**

Balanced and Calving Ease bulls must meet 3 of 3 EPD categories.

Terminal bulls must meet 2 of 2 EPD categories (Terminal bulls do not have a maternal requirement).

Eligible beef breeds for the TAEP Genetics program must have a national breed performance testing program that participates in a National Cattle Evaluation (NCE) program recognized by the Beef Improvement Federation. Expected Progeny Differences (true NCE EPDs) have changed for this application period and must be current as of October 1, 2016. True NCE EPDs must be calculated and printed from the most prominent breed association.

Seedstock producers should plan to submit DNA samples, performance and contemporary group data to the breed association and DNA testing lab early to allow adequate time to calculate true NCE EPDs for required traits. Seedstock producers should print bull pedigree once true NCE EPDs are calculated by the breed association and keep a copy for buyers.

Payment may be denied if individual bulls do not have true NCE EPDs with minimum 0.15 accuracy calculated by their breed association at time of sale catalog printing.

<u>NEW</u> • CE or BW and WW or YW must meet or exceed minimum 0.15 Accuracy for all bull types •						
Must meet or exceed EPD requirements for: Calving ease and Growth and Maternal						
BALANCED Bulls						
<i>(1st bull type option)</i>						
Breed	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL	
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
	CE (Acc.) or	BW (Acc.)	WW (Acc.) or	YW (Acc.)	MILK	MILK
Angus	4 (.15) or	2.7 (.15)	46 (.15) or	77 (.15)	15 to	34
Beefmaster		0.8 (.15)	18 (.15) or	37 (.15)	7 to	13
Brahman		1.4 (.15)	11 (.15) or	19 (.15)	0 to	13
Brangus (Black)	3 (.15) or	1.7 (.15)	20 (.15) or	35 (.15)	5 to	18
Red Brangus	3 (.15) or	1.4 (.15)	12 (.15) or	14 (.15)	5 to	18
Ultrablack	3 (.15) or	1.6 (.15)	22 (.15) or	41 (.15)	5 to	18
Braunvieh	5 (.15) or	3.2 (.15)	41 (.15) or	62 (.15)	27 to	46
Charolais	4 (.15) or	0.4 (.15)	20 (.15) or	34 (.15)	2 to	22
Chianina & Chiangus	6 (.15) or	2.3 (.15)	40 (.15) or	57 (.15)	12 to	30

Gelbvieh	8 (.15) or 2.0 (.15)	63 (.15) or 82 (.15)	20 to 42
Gelbvieh Balancer	10 (.15) or 1.2 (.15)	61 (.15) or 87 (.15)	16 to 38
Hereford	0.6 (.15) or 3.9 (.15)	46 (.15) or 70 (.15)	16 to 35
Black Hereford	3.0 (.15)	41 (.15) or 71 (.15)	21 to 25
Limousin	6 (.15) or 2.2 (.15)	59 (.15) or 79 (.15)	22 to 39
Lim-Flex	9 (.15) or 1.5 (.15)	61 (.15) or 90 (.15)	21 to 37
Maine Anjou	8 (.15) or 1.0 (.15)	43 (.15) or 56 (.15)	12 to 27
MaineTainer	7 (.15) or 1.2 (.15)	42 (.15) or 54 (.15)	12 to 24
Murray Grey	4.4 (.15)	20 (.15) or 30 (.15)	2 to 14
Red Angus	3 (.15) or 0.4 (.15)	54 (.15) or 74 (.15)	13 to 30
Salers	-0.3 (.15) or 2.7 (.15)	27 (.15) or 53 (.15)	10 to 30
Santa Gertrudis	-0.4 (.15)	-4 (.15) or -5 (.15)	-2 to 9
Senepol	2.2 (.15)	7 (.15) or 9 (.15)	-4 or 14
Shorthorn/ShorthornPlus	6 (.15) or 2.5 (.15)	50 (.15) or 56 (.15)	12 to 28
Simmental	8 (.15) or 2.5 (.15)	58 (.15) or 78 (.15)	13 to 33
SimGenetics	9 (.15) or 1.4 (.15)	55 (.15) or 78 (.15)	15 to 33
South Devon	2.5 (.15)	38 (.15) or 71 (.15)	17 to 36
Tarentaise	0 (.15) or 2.0 (.15)	-3 (.15) or 3 (.15)	-4 to 9

<u>NEW</u> • CE or BW and WW or YW must meet or exceed minimum 0.15 Accuracy for all bull types •						
Must meet or exceed EPD requirements for: Calving ease and Growth						
TERMINAL Bulls						
<i>(2nd bull type option)</i>						
Breed	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL	
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
	CE (Acc.) or	BW (Acc.)	WW (Acc.) or	YW (Acc.)		
Angus	0 (.15) or	4.7 (.15)	53 (.15) or	95 (.15)		N/A
Beefmaster		2.2 (.15)	26 (.15) or	48 (.15)		N/A
Brahman		3.2 (.15)	20 (.15) or	32 (.15)		N/A
Brangus (Black)	1 (.15) or	3.2 (.15)	27 (.15) or	52 (.15)		N/A
Red Brangus	1 (.15) or	2.4 (.15)	17 (.15) or	25 (.15)		N/A
Ultrablack	1 (.15) or	3.1 (.15)	30 (.15) or	59 (.15)		N/A
Braunvieh	3 (.15) or	5.3 (.15)	46 (.15) or	77 (.15)		N/A
Charolais	-1 (.15) or	2.8 (.15)	28 (.15) or	52 (.15)		N/A
Chianina & Chiangus	3 (.15) or	4.0 (.15)	50 (.15) or	74 (.15)		N/A
Gelbvieh	5 (.15) or	3.6 (.15)	71 (.15) or	100 (.15)		N/A
Gelbvieh Balancer	7 (.15) or	2.6 (.15)	69 (.15) or	105 (.15)		N/A
Hereford	-1.3 (.15) or	5.4 (.15)	52 (.15) or	85 (.15)		N/A
Black Hereford		4.2 (.15)	47 (.15) or	78 (.15)		N/A
Limousin	3 (.15) or	3.8 (.15)	67 (.15) or	96 (.15)		N/A
Lim-Flex	6 (.15) or	2.8 (.15)	68 (.15) or	106 (.15)		N/A
Maine Anjou	4 (.15) or	3.6 (.15)	50 (.15) or	67 (.15)		N/A
MaineTainer	3 (.15) or	3.7 (.15)	49 (.15) or	66 (.15)		N/A
Murray Grey		5.8 (.15)	27 (.15) or	42 (.15)		N/A
Red Angus	0 (.15) or	2.1 (.15)	62 (.15) or	96 (.15)		N/A
Salers	-1.1 (.15) or	3.9 (.15)	36 (.15) or	69 (.15)		N/A
Santa Gertrudis		1.0 (.15)	1.0 (.15) or	1.4 (.15)		N/A
Senepol		3.3 (.15)	15 (.15) or	18 (.15)		N/A
Shorthorn/ShorthornPlus	0 (.15) or	5.0 (.15)	58 (.15) or	71 (.15)		N/A
Simmental	4 (.15) or	4.3 (.15)	66 (.15) or	97 (.15)		N/A
SimGenetics	5 (.15) or	3.3 (.15)	64 (.15) or	100 (.15)		N/A

South Devon	4.3 (.15)	48 (.15) or 88 (.15)	N/A
Tarentaise	-5 (.15) or 4.7 (.15)	9 (.15) or 19 (.15)	N/A

CALVING EASE Bulls		<i>NEW</i> • CE or BW and WW or YW must meet or exceed minimum 0.15 Accuracy for all bull types •					
		Must meet or exceed EPD requirements for: Calving ease and Growth and Maternal					
Breed <i>(3rd bull type option)</i>	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL		
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum	
	CE (Acc.) or	BW (Acc.)	WW (Acc.) or	YW (Acc.)	MILK	MILK	
Angus	8 (.15) or	1.2 (.15)	42 (.15) or	75 (.15)	15	to	34
Beefmaster		-1.1 (.15)	16 (.15) or	35 (.15)	7	to	13
Brahman		-1.0 (.15)	9 (.15) or	16 (.15)	0	to	13
Brangus (Black)	6 (.15) or	-0.4 (.15)	17 (.15) or	32 (.15)	5	to	18
Red Brangus	6 (.15) or	-0.2 (.15)	10 (.15) or	12 (.15)	5	to	18
Ultrablack	6 (.15) or	-0.2 (.15)	19 (.15) or	38 (.15)	5	to	18
Braunvieh	9 (.15) or	0.8 (.15)	38 (.15) or	58 (.15)	27	to	46
Charolais	10 (.15) or	-2.0 (.15)	19 (.15) or	32 (.15)	2	to	22
Chianina & Chiangus	11 (.15) or	0 (.15)	38 (.15) or	54 (.15)	12	to	30
Gelbvieh	12 (.15) or	0.1 (.15)	60 (.15) or	80 (.15)	20	to	42
Gelbvieh Balancer	13 (.15) or	-0.6 (.15)	58 (.15) or	85 (.15)	16	to	38
Hereford	4.4 (.15) or	2.1 (.15)	42 (.15) or	67 (.15)	16	to	35
Black Hereford		1.6 (.15)	39 (.15) or	68 (.15)	21	to	25
Limousin	11 (.15) or	0 (.15)	55 (.15) or	76 (.15)	22	to	39
Lim-Flex	12 (.15) or	-0.1 (.15)	57 (.15) or	88 (.15)	21	to	37
Maine Anjou	12 (.15) or	-0.9 (.15)	40 (.15) or	51 (.15)	12	to	27
MaineTainer	10 (.15) or	-0.3 (.15)	40 (.15) or	51 (.15)	12	to	24
Murray Grey		2.8 (.15)	17 (.15) or	26 (.15)	2	to	14
Red Angus	7 (.15) or	-1.8 (.15)	49 (.15) or	72 (.15)	13	to	30
Salers	0.7 (.15) or	1.0 (.15)	25 (.15) or	51 (.15)	10	to	30
Santa Gertrudis		-1.4 (.15)	-5 (.15) or	-7 (.15)	-2	to	9
Senepol		0 (.15)	6 (.15) or	8 (.15)	-4	to	14
Shorthorn/ShorthornPlus	10 (.15) or	-0.4 (.15)	47 (.15) or	54 (.15)	12	to	28
Simmental	13 (.15) or	0.4 (.15)	54 (.15) or	75 (.15)	13	to	33
SimGenetics	13 (.15) or	-0.4 (.15)	50 (.15) or	75 (.15)	15	to	33
South Devon		0.2 (.15)	35 (.15) or	69 (.15)	17	to	36
Tarentaise	3 (.15) or	0 (.15)	-5 (.15) or	1 (.15)	-4	to	9

Contact TAEP about other breeds: Blonde d'Aquitaine and Pinzgauer.
Contact TAEP regarding accuracy requirements if your breed only runs one NCE per year.

800-342-8206 or 615-837-5382 - Phone
livestock.genetics@tn.gov

Example:

Does this Angus bull qualify?

CE = 8 (0.18 accuracy)
BW = 2.9 (0.24 accuracy)
WW = 41 (0.21 accuracy)
YW = 76 (0.05 accuracy)
Milk = 34

As which bull type?

BALANCED Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal
Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE)	acceptable	greater than 4
Birth Weight (BW)	unacceptable	greater than 2.7

Calving ease category: **acceptable** meets CE requirement
** Both CE and BW have accuracy values greater than 0.15 **

Weaning Weight (WW)	unacceptable	lower than 46
Yearling Weight (YW)	unacceptable	lower than 77

Growth category: **unacceptable** meets *neither* WW or YW requirements
** Only WW has an accuracy value greater than 0.15 **

Milk	acceptable	falls between 15-34
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Maternal category: **acceptable** meets Milk requirement (34 is max.)

This bull does not qualify as a "Balanced" bull: Growth category is unacceptable

TERMINAL Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth only
Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE)	acceptable	greater than 0
Birth Weight (BW)	acceptable	lower than 4.7

Calving ease category: **acceptable** meets *both* CE and BW requirements
** Both CE and BW have accuracy values greater than 0.15 **

Weaning Weight (WW)	unacceptable	lower than 53
Yearling Weight (YW)	unacceptable	lower than 95

Growth category: **unacceptable** meets *neither* WW or YW requirements
** Only WW has an accuracy value greater than 0.15 **

Milk	<i>not required for Terminal bulls</i>	
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Maternal category: *not a required category for Terminal bulls*

This bull does not qualify as a "Terminal" bull: Growth category is unacceptable

CALVING EASE Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal
Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE) acceptable equals 8
 Birth Weight (BW) unacceptable greater than 1.2

Calving ease category: **acceptable** meets CE requirement
 ** Both CE and BW have accuracy values greater than 0.15 **

Weaning Weight (WW) unacceptable lower than 42
 Yearling Weight (YW) acceptable greater than 75
 YW accuracy unacceptable lower than 0.15

Growth category: **unacceptable**
 ** Only WW has an accuracy value greater than 0.15 **

If bull has Genomic Enhanced EPDs or YW performance and contemporary data through NCE: YW = 75 (0.35 acc)

Weaning Weight (WW) unacceptable lower than 42
 Yearling Weight (YW) acceptable greater than 75
 YW accuracy **acceptable** YW meets EPD at acceptable acc.

Growth category: **acceptable** meets YW requirement

Milk acceptable falls between 15-34

Maternal category: **acceptable** meets Milk requirement (34 is max.)

If bull has Genomic Enhanced EPDs or YW performance and contemporary data through NCE: YW = 75 (0.35 acc)

This bull does qualify as a "Calving Ease" bull: All 3 categories are acceptable

If this bull's eligible EPDs are Genomic Enhanced:
This bull would be reimbursed up to a maximum of \$1,600.

If this bull has a 0.05 Accuracy for CE, BW, WW and YW:
This bull does NOT qualify as a TAEP bull.

FY 2016/2017 TAEP Cattle Genetics Program - Minimum Dairy LNM or Index Requirements by Breed

To Qualify: A bull must meet or exceed the requirements in **1 of the 2** categories.

<u>BREED</u>	<u>LNM</u>	<u>or</u>	<u>Index</u>	<u>Value</u>
HOLSTEIN	308	or	TPI	1719
Red & White	308	or	TPI	1719
AYRSHIRE	223	or	PTI	83
GUERNSEY	102	or	PTI	78
JERSEY	217	or	JPI	82
MILKING SHORTHORN	50			